

US EPA ARCHIVE DOCUMENT

# Situation Report March 7, 2012

627685



# Science Group Status

Data Collection	Data Compilation	Submittal
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Submerged Oil Science Group			
Reassessment			
Spring 2012 Sub Oil Reassessment			
Hydrodynamic Assessment & Modeling			
Bathymetry and terrain data		12/9	
Model Grid setup and QC		12/16	
Configuration for flow and velocity		12/30	
Analysis of sediment samples and cohesion data		1/13	
Complete configuration including sediment processes		1/27	
Model calibration		2/10	
Preliminary and baseline model scenarios		2/24	Reviewed 2/22 and 2/23 in Atlanta Ga.
Model flow events and changes in river conditions		(3/23)	
Temperature Effects Study			
Sediment sample location selection and collection		12/19	
Conduct temperature study		1/11	
Compile, evaluate, and present results	E		Initial Report of findings submitted 2/20; Continue additional temp. Study
Submerged Oil Quantification			
Fall 2011	E		Reviewing potential for 3 alt. methods for suboil quant
Spring 2012 (pre-recovery)	E		
Fall 2012 (post-recovery)	E		

• denotes status updates since the last report



Enbridge



Complete or N/A



Denotes Due Date



# Science Group Status

Data Collection	Data Compilation	Submittal
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## Overbank Science Group

### Reassessment

Spring 2012 Shoreline and Overbank Reassessment	E			
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## Containment Science Group

### Evaluate placement of containment

Hec-Ras Modeling	12/5	1/9	1/26	6 locations for modeling and installation
Hydraulic Calculations	1/10	1/23	1/26	Active sed. struct. permit application submitted
3D Hydrodynamic Model		2/13	E	21 locations Changed from 4 to 21
Monitoring and Management Plan	1/24	1/25	2/27	Submitted - 2/27/12

### Evaluate methods for installation and removal of containment

### Selection of passive sediment collection devices

				Doc. Review complete
E				Permit for passive structures submitted 2/2

### Implementation of passive sediment collection devices

Location selection				Pending completion of hydrodynamic model
Design review				
Installation				
Post-installation review				
Design adjustments				

- denotes status updates since the last report



Enbridge



Complete or N/A



Denotes Due Date



# Remediation Progress

## Location

## Comments

SCIENCE					COMPLIANCE				RECOVERY	MONITORING
RI Work Plan	Plan Review	Investigation	Data Compilation	Presentation to OSCAR	Remediation Work Plan	Remed. Plan Review	Permit Application	Permit Review	Execution	Completion Check

## Overbank

OB 14.98 I
OB 5.92 RDB
OB 13.40 LDB
OB 8.97 I
OB 9.10 LDB
OB 10.37 RDB

	10/17	10/15	9/28	10/10	11/18	E
	12/1	12/8	11/4	12/1	1/25	E
	12/22	2/7	12/21	2/9	2/23	E
	12/15	2/17	2/24	1/25	2/24	E
	1/5	2/17	2/24	1/25	2/24	E
	1/12	2/17	2/24	1/25	2/24	E

Execution completed 2/23
Execution started 2/27
Execution schedule to start 3/6
Execution schedule to start 3/15

## Submerged Oil

SO 9.00
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	E	↶						
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## Containment

Submerged Structures I(6)
Submerged Structures II(12)

	1/27	A	1/26	A		
	2/27	A	E			

Name Changed 2/21 / Execution to complete 3/31
Remediation WP Completed 2/27

- denotes sites with status updates since the last report

 Enbridge / In development

 In Agency Review

 Denotes Due Date

 Complete or N/A

 Revisit Previous Phase



# Facility Sites

447 CY in cells  
26,900 gal water  
7 Roll offs





# Significant Activities

- **Overbank:**
  - MP 2.0 Confluence
  - OB 8.97 I
- **Talmadge Creek**
  - Demobilization
- **RI:**
  - MP 2.25 – MP 3.14







Confluence 3/1





Confluence 3/1





Confluence 3/2



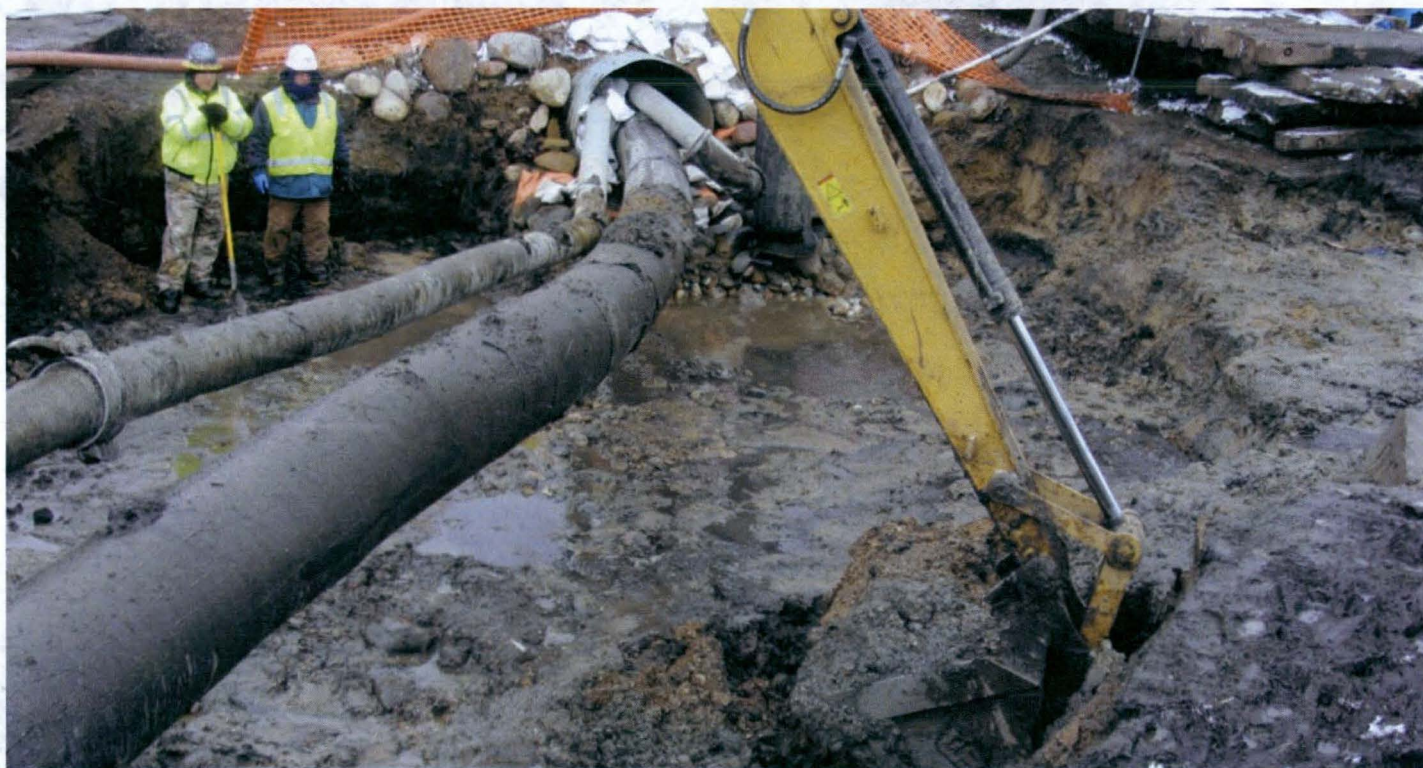
# Significant Activities

- **Overbank:**
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- **RI:**
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# Talmadge Creek



## Operations Resources

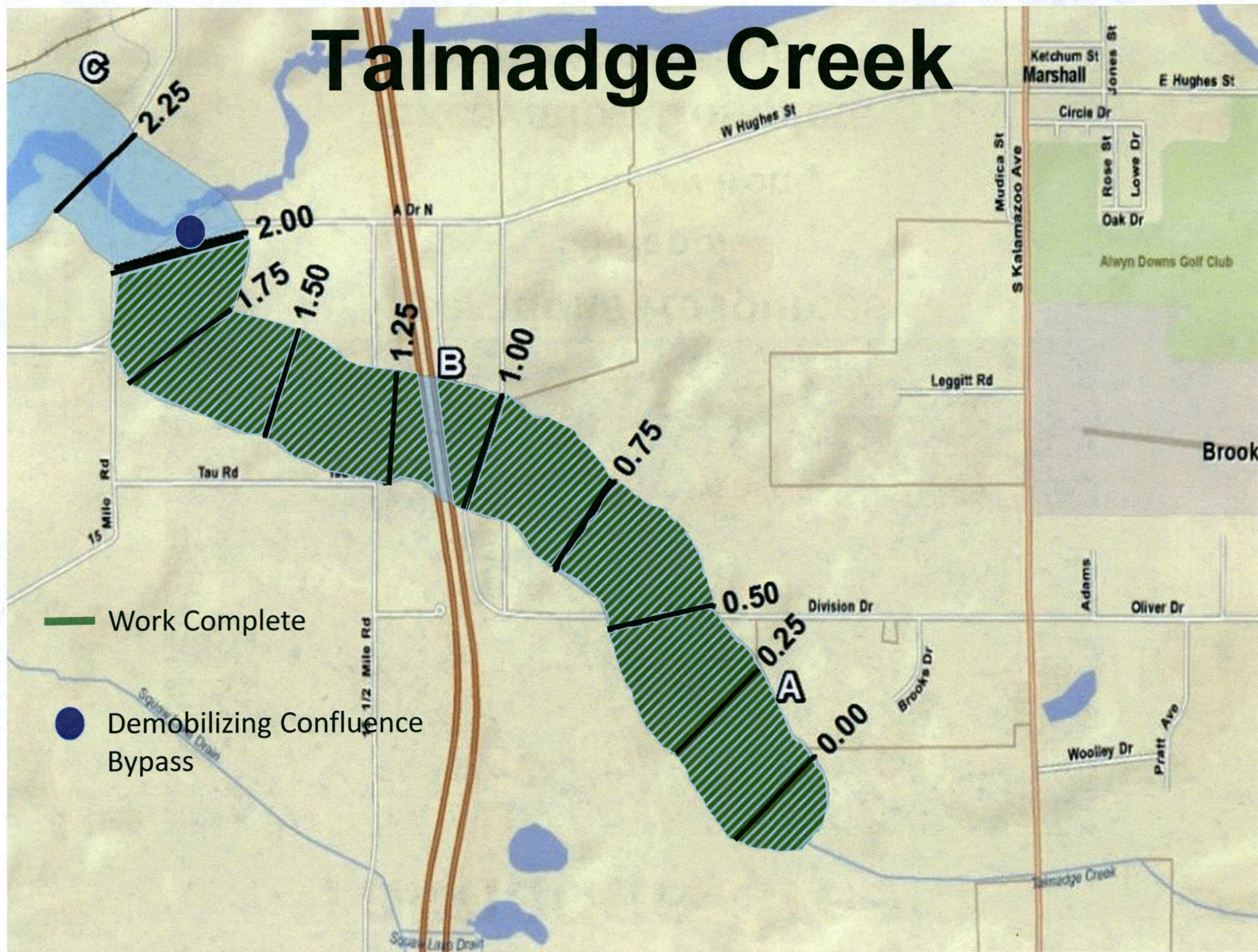
- 50 People
- 10 Yellow Iron

## Excavation Complete

- 10,560 Lineal feet



# Talmadge Creek





# Remediation Progress

## Talmadge Creek

Location	Remedial Investigation V	Remedial Investigation I	Remedial Action Work P	Permit Application	Permit Review	Access	Pump Around	Excavation	Backfill	Restoration	Demobilization	Post Remediation Evalua	No Further Action	Comments
MP 0.0 to 0.5			9/15	9/2	10/14									
MP 0.5 to 1.0			11/28	11/14	12/6									
MP 1.0 to 2.00			1/26	12/7	1/23									
MP 0.0 to 0.5														
MP 0.5 to 0.6														
MP 0.6 to 0.7														
MP 0.7 to 0.8														Demob Complete 2/28
MP 0.8 to 0.9														
MP 0.9 to 1.0														
MP 1.0 to 1.1														Demob Completed 2/16
MP 1.1 to 1.2														Demob Completed 2/16
MP 1.2 to 1.3														Demob Completed 2/16
MP 1.3 to 1.4														Demob Completed 2/25
• MP 1.4 to 1.5											E			Demob Started 3/6
• MP 1.5 to 1.6											E			Demob Started 3/6
MP 1.6 to 1.7														Pump Around and Demob Completed 3/5
• MP 1.7 to 1.8											E			Access Completed 3/6 Demob Started 3/6
• MP 1.8 to 1.9						E					E			Demob Started 3/6
• MP 1.9 to 2.0						E					E			BackFill & Restoration Started 3/5

Complete or N/A  
 E Enbridge / In development  
 ( ) Denotes Due Date

A In Agency Review  
 ↩ Revisit previous phase

• denotes status updates since the last report





Talmadge Creek 3/3





Talmadge Creek 3/3





Talmadge Creek 3/3





Talmadge Creek 3/3







# Daily Progress Tracking

## Personnel Count

	3/6/2012	3/5/2012	3/4/2012	3/3/2012	3/2/2012	3/1/2012	2/29/2012
Talmadge Creek Remediation	54	77	6	75	74	84	78
Kalamazoo River Remediation	16	16	0	2	13	15	16
Containment	8	9	2	2	7	7	7
Submerged Oil	7	7	0	5	7	8	8
Overbank	22	19	2	20	29	30	38
Waste Management	31	30	2	17	28	28	28
Security & Flaggers	11	11	7	10	11	11	12
Operations Center	59	58	6	15	57	60	61
Comm. Centers	8	7	3	3	9	9	8
EPA	2	1	0	1	1	3	2
EPA Contractors	22	19	3	13	13	19	22
Other Agencies	2	0	0	0	0	0	0
DEQ	6	6	0	0	7	7	7
DEQ Contractors	5	5	0	3	7	7	7
<b>TOTAL</b>	<b>253</b>	<b>265</b>	<b>31</b>	<b>166</b>	<b>263</b>	<b>288</b>	<b>294</b>



# Daily Progress Tracking

## Resources Deployed / Decon

	3/6/2012	3/5/2012	3/4/2012	3/3/2012	3/2/2012	3/1/2012	2/29/2012
Vac & Tanker Trucks	2 0	2 0	0 0	1 0	2 0	2 0	2 0
Frac Tanks	7 1	9 0	0 0	5 0	10 0	10 0	10 0
Boats**	5 0	4 0	0 0	2 0	4 0	12 1	10 0
Yellow Iron***	19 0	25 2	0 0	26 0	26 2	24 0	37 2
Roll-Off Boxes	9 0	9 0	0 0	9 0	9 0	9 0	9 0
Boom Locations	10	10	10	10	10	12	12
Boom in River (ft)	1,950 0	1,950 0	1,950 0	1,950 0	1,950 200	2,050 0	2,050 0

Resources Deployed



Item Decon'd

\*\*Boats - Air Boats, Jon Boats &amp; Pontoon Boat

\*\*\* Yellow Iron - Articulating dump trucks, bobcats, bulldozers, excavators, front end loaders, skid steers, gac system, marookas, forklifts, marsh buggies



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# Remediation Progress

Location


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
Comments

## Kalamazoo River Remediation Branch


OB 8.48 LDB			E	↶							Compiling Data to evaluate need to collect additional samples
MP 2.25 to MP 3.14			E	↶							Collecting additional samples / Revisiting week of 2/27
MP 3.14 to MP 5.80			E	↶							Collecting additional samples / Revisiting week of 3/5
MP 5.80 to MP 11.00			E								Investigation
MP 13.0	1/20		E	↶							Collecting additional samples / Revisiting week of 2/27
MP 11.00 to Morrow Lake	2/7	3/1	E								Plan submitted and approved 3/1

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 Complete or N/A

 Revisit Previous Phase

All\_Branch\_Progress\_03-6-2012.xlsx

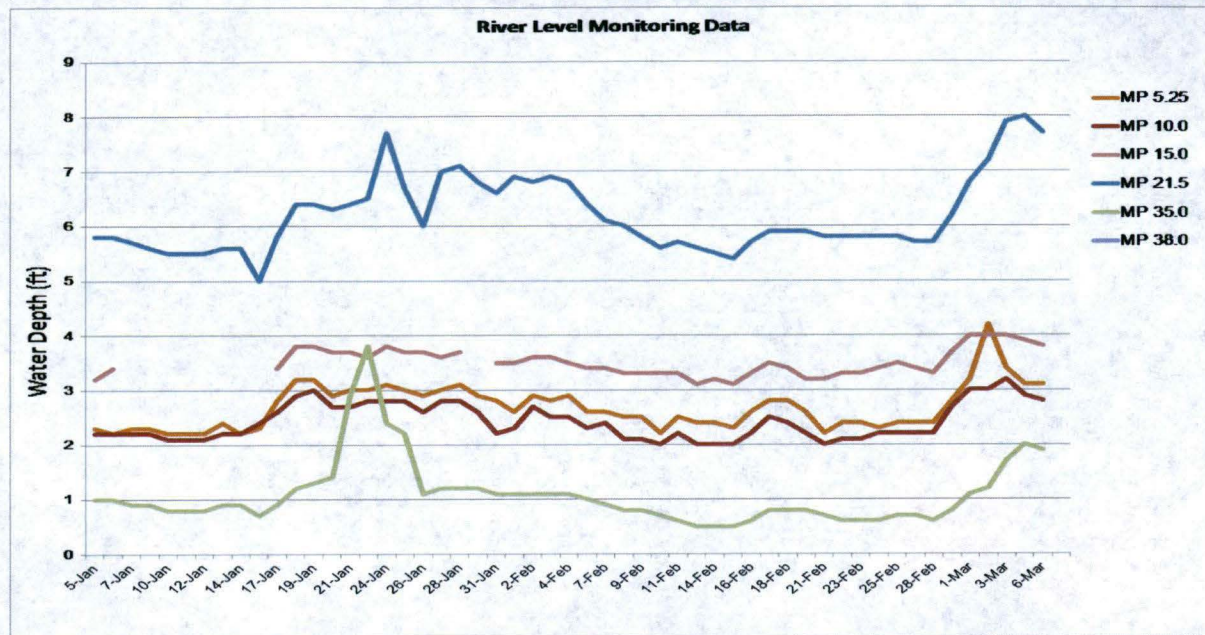




MP 2.25 - 3.14 3/6



# Water Conditions



DISCHARGE RATES (cfs)		
	03/05	03/06
Marshall, MI	800	760
<i>Historical Median</i>	428	423
Battle Creek, MI	2040	1760
<i>Historical Median</i>	890	910

